

7600042

HHE UNIVERD SHAMES OF AMIERIOA

TO ALL TO WHOM THESE PRESENTS SHALL COME: Rilcot Seed Co., Division of Riley Vieldmaster Seed Corporation

Wilhereas, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED to be entitled to a certificate of plant variety protection under the ${
m LAW}.$

NOW, therefore, this certificate of plant variety protection is to grant UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(8) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-CLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT TY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS F CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'Rilcot 90-A'

In Testimony Takerrof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington . day of March this 11th the year of our Lord one thousand nine hundred and eighty-two.

Attest:

es allula

Plant Variety Protection Office Grain Division

Agricultural Marketing Service

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

1. VARIETY NAME OR TEMPORARY	2. KIND NAME		COD OFFICI	AL USE ONLY
DESIGNATION	4 KIND NAME		PV NUMBER	AL USE ONLY
Rilcot 90-A	Cotton		76000	42
3. GENUS AND SPECIES NAME	4. FAMILY NAME (Bo	otanical)	FILING DATE	TIME
Gossypium hirsutum	Malvaceae		FEE RECEIVED	12:30 P.M. BALANCE DUE
•	5. DATE OF DETER	MINATION	s 250.00	\$
	November 15,	1971	\$ 250.00	\$
	1,1,0,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		\$ 250.00	\$ 12/29/81
6. NAME OF APPLICANT(S)		and No. of R.F.D. No.,	City, State, and ZIP	8. TELEPHONE AREA
Rilcot Seed Co., Division of	Code)			CODE AND NUMBER
Riley Yielomaster Seed	Box 96	8/3/11/00/11/8		
Corporation	Hart, 1		806-647-5130	
		846-2435		
9. IF THE NAMED APPLICANT IS NOT A PER ORGANIZATION: (Corporation, partnership,		10. STATE OF INCOR	PORATION	11. DATE OF INCORPORATION April 6. 1960
Corporation 12. Name and mailing address of applica	ant representative(s), if any, to serve i	n this application a	
Ray Joe Riley Rt. 2 Box 96 Hart, Texas 79043	1	·		••
13A. Exhibit A, Origin and Breed 13B. Exhibit B, Botanical Description 13C. Exhibit C, Objective Description 13C.	ding History of the	ty	n 52 of the Plant Va	riety Protection Act.)
13D. Exhibit D, Data Indicative	of Novelty			
13E. Exhibit E, Statement of the	Basis of Applican	t's Ownership		
14A. Does the applicant(s) specify that (See Section 83(a), (If "Yes," ans			name only as a clas	ss of certified seed?
14B. Does the applicant(s) specify that limited as to number of generation	this variety be		er seed?	rations of production
The applicant declares that a viable sa ance of a certificate and will be replet				
The undersigned applicant(s) of this uniform, and stable as required in Se Plant Variety Protection Act.	sexually-reproduce	ed novel plant variet	y believes that the t	variety is distinct,
Applicant is informed that false repre	esentation herein ca	an jeopardize protec	tion and result in pe	nalties.
	· · · · · ·	4/_ (\nah/·	//
2-11-76	S. Salar	I Kan	XVVIII	Kery
(DATE)	· · · · · · · · · · · · · · · · · · ·	(3)	GNATURE OF APPLICA	NT)
	<u> </u>			1
(DATE)		(e)	CNATHER OF APPLICA	NTI

Attachment to Form GR-470

Exhibit A, Origin and Breeding History of the Variety

The line of cotton designated and tested as Rilcot 90-A resulted from selections made from the Rilcot 90 variety.

The original plant selections were dade for stormproofness, earliness, yield, vigor, and staple length.

The original selections were made and planted plant to row for identification.

Progeny of the plant rows of near identical types were massed and bulked after yield and fiber testing to verify uniformity.

The original selections were made in 1969.

Riley Yieldmaster Seed Corporation

General Office Sunnyside Community
PHONE SUNNYSIDE (806) 846-2435

Mailing Address Rt. 2 Box 96 HART, TEXAS 79043

May 11, 1976

Mr. J. J. Higgins, Examiner Plant Variety Protection Office National Agricultural Library Beltsville, Maryland 20705

Dear Mr. Higgins:

Reference is made to your letter of April 12, 1976 concerning Gotton Application No. 7600042, "Rilect 90-A'.

In regard to Exhibit A, Rilcot 90-A is stable and only an occassional off type occurs as a frequency of less than 1 plant per 2,500 population on a strict evaluation. Variants would tend to be open boll types, with larger bolls and/or taller plants.

For Exhibit C, under No. 4, Plant Habit, the Foliage is sparse. Under No. 19, the 22.6 should be for 1/8" guage.

In Exhibit D, I enclose some additional information which will show under Table L. Besults of the Irrigated Supplemental Cotton Variety Test at Imbbook, 1975, that Rilcot 90-A is significantly higher in micronaire and fiber length uniformity than Rilcot 90. In most tests, Rilcot 90-A has been stronger in fiber strength and longer in fiber length, however, the difference is small and is sometimes difficult to show statistically in all tests. Enclosed data from the Gaines County, 1973 tests as well as the 1973 Dayson County tests is representative and will bear this out. It is necessary to put a number of individual differences together to show a high probability of difference with a number of cases of differences showing up. Therefore; we should say in substantiation of novelty that Rilcot 90-A is significantly higher in fiber uniformity and higher, significantly in fiber micronaire.

I trust that this information will met your requirements.

Ray Joe Hi Rair: sw

Encl.

Cottonseed Division

Box 1009
Phone (806) 385-5401
LITTLEFIELD, TEXAS 79339

Rilcot Seed Co.

STATE REGISTERED PLANT BREEDERS - REGISTERED CHAROLAIS CATTLE

OTHER OFFICES:

Dimmitt, Texas 79027

Kingsland, Toxas 78639 Phone (915) 388-4693 Box 621

Bonham, Texas 75418 Phone (2141 \$83-4605 Rt. I, Box 78 Exhibit B, Botanical Description of the Variety

The Seed of Rilcot 90-A is of the glanded type with short linters after saw ginning. The plants in the seedling emergence, cotyledon, and four leaf stages of growth are similar in vigor to the Rilcot 90 variety, taking into condiseration equal seed quality and strength. The Rilcot 90-A plants are prolific fruiting, setting a high percentage of the flowers blooming. Rilcot 90-A is characterized as being early, about 1 day earlier than Rilcot 90, and moderately determinant. The mature plant is medium tall, about the same height as Rilcot 90. The fruit is a round type, medium small boll borne on short stems containing both four and five locules per boll. The carpels curve inward to form a stormproof, tight boll type. The boll size is approximately 90 bolls per pound. The seed index is about 9.5 / or - .05. The lint index is approximately 5.4 to 6.0.

The flowers of Rilcot 90-A are complete, moderately large and are white to creamy colored on opening.

The root is a deep, vigorous taproot with laterals.

The stem is a main central stem with short vegetative and fruiting branches or laterals. Medium dark red colored stems and petioles are typical which in a matured or nonvegetative state of growth for that portion of the plant. Vegetative and actively growing parts are green colored. The leaves are medium sized for upland cotton and are three lobed.

The plant is medium tall in height and compact.

2 = HIGH BUD GOSSYPOL

2 = MODERATE (DPL-16)

4 = OTHER (Specify)

5

1 = SPARSE (GREGG 35)

3 = HEAVY (ACALA SJ-1)

1 Seed Fuzz:

FYHIRIT C

(Cotton)

FORM GR-470-8 (10-2-72)

4 = OTHER (Specify)

0

SEED INDEX

(Fuzzy seed basis)

14. SEEDS:

0

915

UNITED STATES DEPARTMENT OF AGRICULTURE

AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

OBJECTIVE DESCRIPTION OF VARIETY

COTTON (GOSSYPIUM SPP.)

INSTRUCTIONS: See Reverse. NAME OF APPLICANT(S) FOR OFFICIAL USE ONLY Rilcot Seed Co., Division of Riley Yieldmaster Seed Corp PYPO NUMBER 76 000 42 VARIETY NAME OR YEMPORARY DESIGNATION ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Rt. 2 Box 96, Hart, Texas 79043 RILCOT 90:A Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in first box (e.s. 0 8 9 or 0 9) when number is either 99 or less or 9 or less. 1. SPECIES: 1 2 = GOSSYPIUM BARBADENSE 1 = GOSSYPIUM HIRSUTUM 2. AREA(S) OF ADAPTION (0 = Not Tested, 3 = Not Adapted, 2 = Adapted): 2 HIGH PLAINS O CENTRAL 0 EASTERN 0 EL PASO AREA DELTA 0 SAN JOAQUIN 0 WESTERN LOW HOT VALLEYS OTHER (Specify) 3. MATURITY (50% Open Boll): 3 = STONEVILLE 213 1 = COKER 310 2 = DELTAPINE 16 0 9 NO. OF DAYS EARLIER THAN 7 5 = ACALA 1517-70 6 = ACALA SJ-1 4 = PAYMASTER 111 NO. OF DAYS LATER THAN 8 = OTHER(Specify)7 = LANKART 57 ide 5/11/76 1 = FOLIAGE SPARSE PLANT HABIT: 2 = DENSE 1 = SPREADING 2 = INTERMEDIATE 3 = COMPACT 3 = OTHER (Specify) 5. PLANT HEIGHT: 2 = DELTAPINE 16 3 = STONEVILLE 213 1 = COKER 310 CM. SHORTER THAN 6 = ACALA SJ-1 4 = PAYMASTER 111 5 = ACALA 1517-70 7 9 CM. TALLER THAN 8 = OTHER(Specify)7 = LANKART 57 6. MAIN STEM: CM. TO FIRST NO. OF NODES TO FIRST FRUITING BRANC 0 6. (from cotyledonary node) 12 FRUITING BRANCH 1 = LAX 2 = ASCENDING 3 = ERECT 1 = GLABROUS (HAIRS AS SPARSE AS D2 SMOOTH) 8. LEAF PUBESCENSE: 7. LEAF: CM. WIDTH OF WIDEST LEAVES 3 = PUBESCENT (STONEVILLE 213) 2 = SMOOTH LEAF (DELTAPINE SMOOTH LEAF) 4 = HEAVY PUBESCENCE (H, OR H2) 5 = OTHER (Specify) 9. LEAF COLOR: 1 = VIRESCENT YELLOW 2 = LIGHT GREEN 3 = DARK GREEN (Acala-442) 4 = RED 5 = OTHER (Specify). 10. LEAF TYPE: 1 = NORMAL 2 = OKRA 3 = SUPER OKRA 4 = OTHER (Specify) 11. FLOWER: 2 1 = NECTARILESS 2 = NECTARIED Petals: 1 = CREAM 2 = YELLOW Pollen: 1 = CREAM 2 = YELLOW 12. FRUITING BRANCH TYPE: 1 = CLUSTER 2 = SHORT 3 = NORMAL 1 = DETERMINATE 2 = INDETERMINATE 13. GOSSYPOL CONDITION: 1 = NORMAL BUD GOSSYPOL 1 = GLANDLESS 2 = REDUCED GLANDS 3 = NORMAL GLANDS

2 SHEETS

FORM APPROVED. OMB NO. 40-R3712

FORM GR-470-8 (10-2-72)

1 = CLUSTER 2 = SHORT

GOSSYPOL CONDITION:

1 = GLANDLESS 4 = OTHER (Specify)

13.

14. SEEDS:

9

UNITED STATES DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE GRAIN DIVISION HYATTSVILLE, MARYLAND 20782

EXHIBIT C (Cotton)

OBJECTIVE DESCRIPTION OF VARIET	'Y
INSTRUCTIONS: See Reverse. COTTON (GOSSYPIUM SPP.)	
NAME OF APPLICANTS	FOR OFFICIAL USE ONLY
Rilear Seld Co.	PVPO NUMBER
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)	73/0326
HART TX:	DESIGNATION COT 90
Place the appropriate number that describes the varietal character of this variety in the Place a zero in first box (e.g. $\boxed{0}$ $\boxed{8}$ $\boxed{9}$ or $\boxed{0}$ $\boxed{9}$) when number is either 99 or less or	
1. SPECIES:	
1 = GOSSYPIUM HIRSUTUM 2 = GOSSYPIUM BARBADENSE	
2. AREA(S) OF ADAPTION (0 = Not Tested, 1 = Not Adapted, 2 = Adapted):	
	H PLAINS EL PASO AREA
WESTERN LOW HOT VALLEYS SAN JOAQUIN OTI	HER (Specify)
3. MATURITY (50% Open Boll):	
NO. OF DAYS BARLIER THAN	DELTAPINE 16 3 = STONEVILLE 213
4 = PAYMASTER 111 NO. OF DAYS <i>LATER</i> THAN	5 = ACALA 1517-70 6 = ACALA SJ-1 OTHER (Specify)
4. PLANT HABIT:	
a	= FOLIAGE SPARSE 2 = DENSE 3 = OTHER (Specify)
5. PLANT HEIGHT:	
CM. SHORTER THAN 1 = COKER 310 2 =	DELTAPINE 16 3 = STONEVILLE 213
0 9 CM. TALLER THAN 7 = LANKART 57 8 = 1	5 = ACALA 1517-70 6 = ACALA SJ-1 OTHER (Specify)
6. MAIN STEM:	
3 1 = LAX 2 = ASCENDING 3 = ERECT /2 FRUITING BRANCH	NO. OF NODES TO FIRST FRUITING BRANC (from cotyledonary node)
7. LEAF: 8. LEAF PUBESCENSE: 1 = GLABRO	US (HAIRS AS SPARSE AS D2 SMOOTH)
CM. WIDTH OF WIDEST LEAVES AT MATURITY 2 = SMOOTH LEAF (DELTAPINE SMOOTH LEAF) 4 = HEAVY PUBESCENCE (H ₁ OR H ₂) 5 = OTHER (3 = PUBESCENT (STONEVILLE 213)
9. LEAF COLOR:	
1 = VIRESCENT YELLOW 2 = LIGHT GREEN 3 = DARK GREEN (Acala-442) 5 = OTHER (Specify)	?) 4 = RED
10. LEAF TYPE:	
1 = NORMAL 2 = OKRA 3 = SUPER OKRA 4 = OTHER (Specify)	
11. FLOWER:	
1 = NECTARILESS 2 = NECTARIED	
Petals: 1 = CREAM 2 = YELLOW Pollen: 1 = CREAM 2 = YEL	_LOW
12. FRUITING BRANCH TYPE:	· · · · · ·

| | 1 = DETERMINATE

/ Seed Fuzz:

2 = INDETERMINATE

1 = SPARSE (GREGG 35)

3 = HEAVY (ACALA SJ-1)

1 = NORMAL BUD GOSSYPOL 2 = HIGH BUD GOSSYPOL

2 = MODERATE (DPL-16)

4 = OTHER(Specify)

3 = NORMAL

SEED INDEX
(Fuzzy seed basis)

2 = REDUCED GLANDS 3 = NORMAL GLANDS

Rilcot data summary,	comparing dile	ot 90 ar 19	nd Rale t 90 979	-A(3 re pli 19 80	.cations) Average
Rilcot 90	3.5	3•	.23	4.06	3 . 596
Rilcot 90-A	3 .6 5	3.	.34	4.26	3 .75 0
1978	imep. I	Rep. II	ill •qefi	Rep IV	Ava.
Rilcot90	3.5	3.6	3.4	3 .5	3 •5
Rilcot 90-A	3.5	3 •7	3•7	3 .6	3 .65
1979	3•3	3.2	3•2		3.23
Rilcot 90					
RLicot 90-A	3.4	3•3	3•4		3.24
1980	·				
Rilent 90	4.1	4.0	4.1		66ميل
Rilcot 90-A	4.3	4.3	4.2		4.26

Summary from Rileot micronaire records for 1978, 1979, 1980

Exhibit & Data Indicative of Movelty

Movelay is based on the unique combination of the following characters:

Bilcot 90-A most nearly resembles *Bilcot 90* except that it differs by being about one (1) day earlier than *Bilcot 90* and *Bilcot 90-A* is about .25 higher in macronaire than *Bilcot 90*.

SUMMARY OF MICHINAIRE VALUE DATA

TST	YEAR	TEST SITE	RILCOT 90 VALUE	RIICUT 90-A VALUE
Texas Agricultural Exp. Sta. Supp. Irrig. Cotton Variety	19 74	Inbbock Station	3 . 6 3	3.88
Texas Agricultural Exp. Sta. Supp. Ibbig. Cotton Variety		Lubbock Station	2.65	3. 03
		Ave rage	3 -1 1	3-46
Texas Agricultural Extension Service Cotton Variety Tests		Gaines Pawson Lamb Terry Railey Lamb	4.20 3.50 4.90 3.70 2.60 3.20	4.25 4.45 4.70 4.00 2.80 3.50
		Average	3 .6 8	3•95

RILCOT 90A SUMMARY OF DATA

Texas Agriculteral Experiment Station

YEAR	i ga Micronaire	Test
1974	€ 3.88	Lubbock Supplimental Variety
1971-19	3.8	Lubbock Regional Dryland Variety
1977	4.3	Lubbock Regional Dryland
1977	4.4	Regional-Lamesa
1978	3.8	Lubbock Regional Irrigated
1975	3.03 3.87 - Avera All T	

3.46 average Same Comparitive Tests Rilcot 90

Texas Year	Agriculteral Experiment Micronaire	Station Test
1975	2.65 years	Lubbock-Irrigated Supp.
1974	_v 3.63	Lubback Irrighted
1976	Data Unavable	e Due to crop loss.

^{3.14} Avg. all tests

^{3.14} Avg. same comparitive tests

R.B. METZER 1973

22) Rilcot 90

A variety with compact plant adapted to stripper harvesting. Selection from the old Macha variety; early maturing, resistant to Bacterial blight, but susceptible to Verticillium wilt. Fiber coarse with relatively high fiber strength. Well adapted for narrow-row production.

Average fiber properties

Bolls per pound - 90 Staple length (32nd) - 30 Upper half mean (UHM) - .90 Strength (1000 PSI) - 85 (range 74-101) Micronaire - 3.6-4.9 Boll type - Stormproof

23) Rilcot 90A

A selection from Rilcot 90. This cotton is an improvement over Rilcot 90 in yield and earliness. It has shorter branches than Rilcot 90, which makes it better adapted for broadcast planting and stripper harvesting. Rilcot 90A is a moderately determinate (cut-out) cotton with close fruiting, stormproof bolls. Matures in approximately 120 days.

Average fiber properties

Bolls per pound - 90 Staple length (32nd) - 30-31 Upper half mean (UHM) - .95 Strength (1000 PSI) - 85 Micronaire - 3.5-4.5 Boll type - Stormproof

24) Stripper Cala S

This variety is a selection from CA 398 which is a breeding strain developed by the Texas Agricultural Experiment Station at Lubbock. Stormproof, good fiber length and strength.

Average fiber properties

Bolls per pound - 78
Staple length (32nd) - 32.2
(range 28-36)
Upper half mean (UHM) - 1.04
(range .91-1.04)

Strength (1000 PSI) - 90.4 (range 81.9-101.8) Micronaire - 3.5 (range 2.4-4.5) Boll type - Stormproof

25) Stripper N

This variety is a sister line of Stripper Cala S (selection of CA 398). Somewhat earlier than Stripper Cala S. Recommended for areas north of Lubbock. This variety has done well in narrow-row.

Average fiber properties

Bolis per pound - 84 Staple length (32nd) - 32-33 Upper half mean (UHM) - 1.00 (range .92-1.08) Strength (1000 PS1) - 86.8 (range 79.4-100.4) Micronaire - 3.5 (range 2.7-4.8) Boll type - Stormproof

Summary of Data

Texas Agriculteral Extension Service

Average in same tests	4-07	3.6
Grand all tests	f1•01	3 . 6
1975	3 .5	3.2 Lamb
	All test 4.1 Average comparisor same test 4.35 Average	n of ts
1978	4.1	Test lost
1977	3.9	Test lost
1973	4.45	3.5 Dawson
1973	3.9	Test lost
1973	ike Mi 4.25	ike Test Location 4.2 Gaines
	icot 90A Ri	l č ot 90

RILCOT VARIETY TESTS SCYDUCTED BY AAY JOS RILEY, RESISTIRED PLANT BREEDER TABLE 1.

CASTRO COUNTY: 1970

Variety	Vield/Acre	Micronaire	Stanla
Pilcot Stripper-W	588 lbs.	I. ·	31/32"
Rileat 90	664 1ba,		18/16
Rileat 90 - A	682 lbs.		15/16"
Riloot Stripper Cala S	614 155,	ر. د.	33/32"
AVERASE	650 lbs.	3.1	

TABLE 2.

TAME CONSTANT 1879

Variety	Y3274/Ac. 2	/ icrossire	Stable
Gilcol Strioper-M	702 150	u. u.	3:730
Riloot 99	694 155.	۶. س	29/35
Rilent 90-A	\$4. U.S.	. 9'8	15/161
Riloot Stringer Cala S	525 Jbp.	k) ki	23/32
AVENAGG		جر ڪر	

	Grade &	3130 3129 3130 3131	二氯苯基甲甲二 一	4132 4130 4130 4130 3132 3128 3130
	Strength	25/22/25	ଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ୍ରଅଷ୍ଟ	23 23 27 22 24 24
	1.) UR	74 74 74 75	74 70 75 75 76 76	76 75 75 74 75
	Fiber Length (in	1.04 1.02 1.06	1.14 1.04 1.05 1.05 1.05 1.05	00.1 96. 98. 1.03 89. 89. 89.
	⊢ ' <i>□ </i>	5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.		က်လှင် မွေးမရှင်းမှ ကြောင်းမှာ ကြောင်းမှာ ကြောင်းမှာ
	Lint Survey 30. 20. 2	20.5 16.9 16.9 20.0 20.0	17.3 16.5 19.4 19.8 17.6	15.7 16.4 22.0 12.4 22.4
DATA EOD	Lint Vields Plot lbs/Acre*	282 320 342 423 478	346 423 375 375 575 575 578	811 924 386 439 487 509
FIBER QUALETY DATA FOR	Lint 16s/Plot	282 320 342 423 478	. 408 . 408 . 445 . 575 . 721 . 721	. 211 . 924 . 529 . 386 . 439 . 487
LINT VIELDS AND FI		Filcot 90-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7	t Spring warf	Gregg 45 (B) Gregg 45 (A) Dunn 113 Payraster 111A Stripper N Rilcct 90 Early Cot 31
	Test Location Marrow	Marrow Marrow F. Shaw	E. Shaw E. Shaw E. Shaw E. Shaw Gedel Aedel	kmorton kmorton kmorton kmorton

* Assuming plot size to be 1/1000 acre (13 ft. of one 40

Exhibit E, Statement of the Basis of Applicant's Ownership

The owner and applicant, Rilcot Seed Co., Division of Riley Yieldmaster Seed Corporation is the employer of the breeder, Ray Joe Riley, licensed Texas Registered Plant Breeder, and believes it is the sole, original and first breeder of Rilcot 90-A variety of cotton for which it solicits a certificate of protection.

			# 760	X42	RILC	OT	90-A
FORM GR-470-8	(REVERSE)	·	7, 7000				70 //
15. BOLLS:							
2 Locules:	1 = 3-4 2 = 4-5	3 6 NO. SEEDS P	ER BOLL	3 5 2	LINT PERCENT	3 5	MM. DIAMETER
2 Pitted:	l = NONE 2 = FINELY 3 = COURSELY	5 0 0 GRAMS	SEED COTTON	2	Breadth: 1 = BF 2 = BF	ROADER AT B	
1 Type:	1 = STORMPROOF (W 2 = STORM RESISTAN 3 = OPEN (DELTAPIN	IT (LANKART 57)	2 Shape:	1 = LENGTH < 2 = LENGTH : 3 = LENGTH ;	= WIDTH		
16. BRACTEO	ES:						
3 Breadth:	I = LENGTH < WIDTH	4 2 = LENGTH = WIDTH	4 3 = LENGT				
2 Teeth:	1 = FINE 2 = CO	URSE '	Teeth: 1	= 3-4 2 = 5-7 = OTHER (Speci	3 = 8-10		
17. YIELD: Ca	mpared to		·				
	PERCENT LESS THA		1 1 1		2 = DELTAPINE		ONEVILLE 213
114	PERCENT MORE TH	-		ACALA SJ-1		IKART 57	
18. FIBER LE	IGTH (Complete one or	more of the following and	give the means	s):	•		
0 4 5	SPAN LENGTH 50%	0 9	5 SPAN LE	ENGTH 2.5%		0 9 1	U.H.M. LENGTH
	MEAN LENGTH	3	0 STAPLE	LENGTH 32nd IN	NCHES		
UN	IFORMITY RATIO (ME	AN/U.H.M.)]4	7 UNIFOR	MITY INDEX (50%	SPAN/2.5% SP	AN)	
19. FIBER STR	ENGTH AND ELONGA	TION:			22.6	Gr/Tx St	e Lome ter
085	1,000 P.S.I.	0 7	ELONGA	TION XX		0 4 0	o" guage
4 2 5	MICRONAIRE READIN	817.5		RENGTH (Give t s) Average		1.94	1/8 guage stilometer $\mathbf{x}_{\mathbf{x}}$
20. DISEASE:	(0 = Not Tested, 1 = 5	usceptible, 2 = Resistan	1)		/	1/	
VERTICI	_LIUM	0 FUSARIUM WILT	0	ROOT KNOT NEMATODE		2 BACTE	RIAL (Race I)
BACTER BLIGHT	AL (Race 2)	ASCOCHYTA BLIGHT		PHYMATOTRIC ROOT ROT	ним	O RHIZO	CTONIA
O ANTHRA	CNOSE	RUST		OTHER (Specif	(y)		
21. INSECT: (0 = Not Tested, 1 = Su	sceptible, 2 = Resistant)				· · · · · · · · · · · · · · · · · · ·
O BOLL W	EEVIL	O APHID	0	FLEAHOPPER		O LEAFY	/ORM
O FALL A	RMYWORM	0 GRASSHOPPER	0	LYGUŞ		O PINK E	OLLWORM
O STINKE	u.g	O THRIP	0	CUTWORM		O SPIDE	RMITE

REFERENCES: The following publications may be used as a reference aid for the standardization of terms and procedures for completing this form:

(1) Brown, Harry B., and J. O. Ware, 1958, Cotton, McGraw-Hill Book Company, Inc., New York.

(2) Lewis, C. F., and H. H. Ramey, Jr., 1971, 1970 Regional Cotton Variety Tests, ARS 34-130, United States Department of Agriculture.

COLORS: Nickerson's or any recognized color fan may be used to determine flower color of the described variety.

FORM GR-470-8	(REVERSE)					
15. BOLLS:						
2 Locules:	1 = 3-4 2 = 4-5	NO. SEEDS P	ER BOLL	352 LINT	PERCENT	MM. DIAMETER
2 Pitted:	1 = NONE 2 = FINELY 3 = COURSELY	GRAMS PER BO	SEED COTTON	2_ Breadt		DER AT BASE Der at middle
Type:	1 = STORMPROOF (WE 2 = STORM RESISTAN 3 = OPEN (DELTAPIN	T (LANKART 57)	2 Shape:	1 = LENGTH < WIDT 2 = LENGTH = WIDT 3 = LENGTH > WIDT	н	
16. BRACTEO	LES:					
Breadth:	1 = LENGTH < WIDTH	2 = LENGTH = WIDTH				
2 Teeth:	1 = FINE 2 = COL	URSE	1/1	= 3.4 2 = 5.7 3 = OTHER (Specify)	= 8-10	
T7. YIELD: C	ompared to					
	PERCENT LESS THAN				LTAPINE 16	
1114	PERCENT MORE THA		77	ACALA SJ-1	7 = LANKA	·1517-70··
19 FIRED I E	NGTH /Complete one or	more of the following and	d sive the means)·		
TO. FIBER EE	itarii (complete one or	more or me tottowing one		,,.	_	
044	SPAN LENGTH 50%	09	SPAN LE	NGTH 2.5%	U	9 0 U.H.M. LENGTH
	MEAN LENGTH	3	O STAPLE	LENGTH 32nd INCHES		
UN	IFORMITY RATIO (MEA	AN/U.H.M.)	6 UNIFOR	MITY INDEX (50% SPAN	/2.5% SPAN)	
19. FIBER ST	RENGTH AND ELONGA	TION:			Ž,	1.01 0" 3
85	1,000 P.S.I.		ELONGA	TION E		STILOMETER TO
4 25	MICRONAIRE READIN	ıg	YARN ST	RENGTH (Give test me	thod)	STILOMETER T
20. DISEASE:	(0 = Not Tested 1 = \$u	usceptible, 2 = Resistan	+)		,	
	(0 (10) 100100, ,		·,			_
VERTICI WILT	LLIUM	D FUSARIUM WILT	اما	ROOT KNOT NEMATODE	<u>د</u> ا ر	BACTERIAL BLIGHT (Race I)
BACTER BLIGHT	IAL (Race 2)	ASCOCHYTA BLIGHT	0	PHYMATOTRICHUM ROOT ROT	0	RHIZOCTONIA
D ANTHRA	CNOSE	RUST TALE TO THE		OTHER (Specify)		
21. INSECT: (0 = Not Tested, 1 = Sus	sceptible, 2 = Resistant)			
O BOLL W	EEVIL	APHID .	0	FLEAHOPPER	වි	LEAFWORM
O FALL A	RMYWORM	GRASSHOPPER	0	LYGU\$	[2	PINK BOLLWORM
O STINKE	JU.G	THRIP	0	CUTWORM	<u>ق</u> .	SPIDERMITE
OTHER	(Specify)				٠	

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(1) Brown, Harry B., and J. O. Ware, 1958, Cotton, McGraw-Hill Book Company, Inc., New York.

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